

Abstract

The invention relates to a scaffold for tissue culture and cell culture (Tissue Engineering) for the production of implant materials, in particular bone, cartilage or skin replacements or extra-corporal organ replacements or for other applications in medicine or biotechnology.

This scaffold is comprised of biocompatible materials and comprises at least one base material (1), which is electrostatically flocked with fibers (3) on at least one side. Through the electrostatic flocking the fibers are arranged almost perpendicularly on the surface of the base material and exhibits a high fiber pull-out resistance. Advantageously, the scaffold according to the invention provides an elastic growth lattice, which is stable against compression, for cell colonization in vitro or the ingrowth of cells in vivo.

The invention further relates to implants or implant materials produced with the scaffold and a method for the production of an implant material.